

1/12

FIG. 1

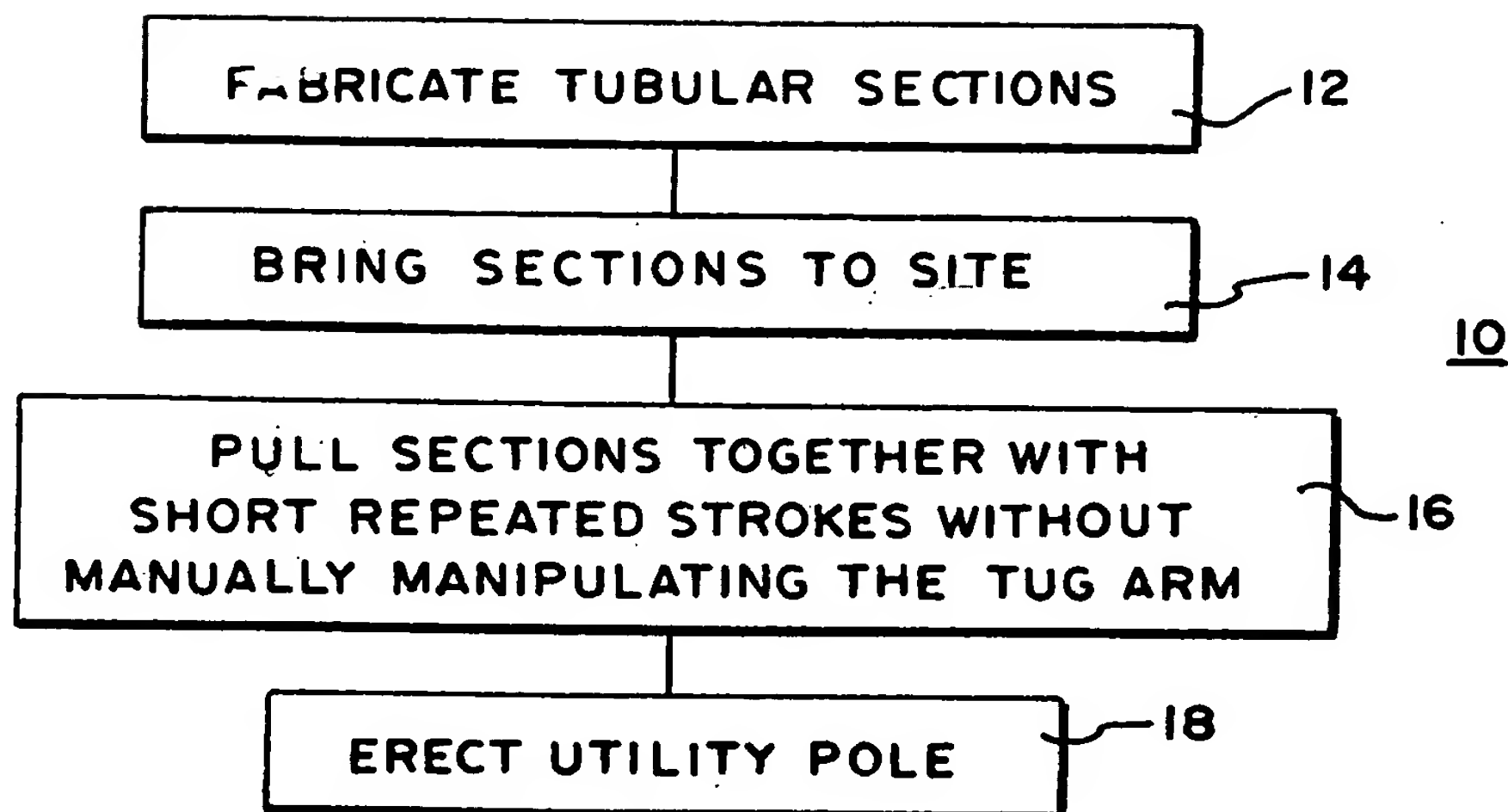
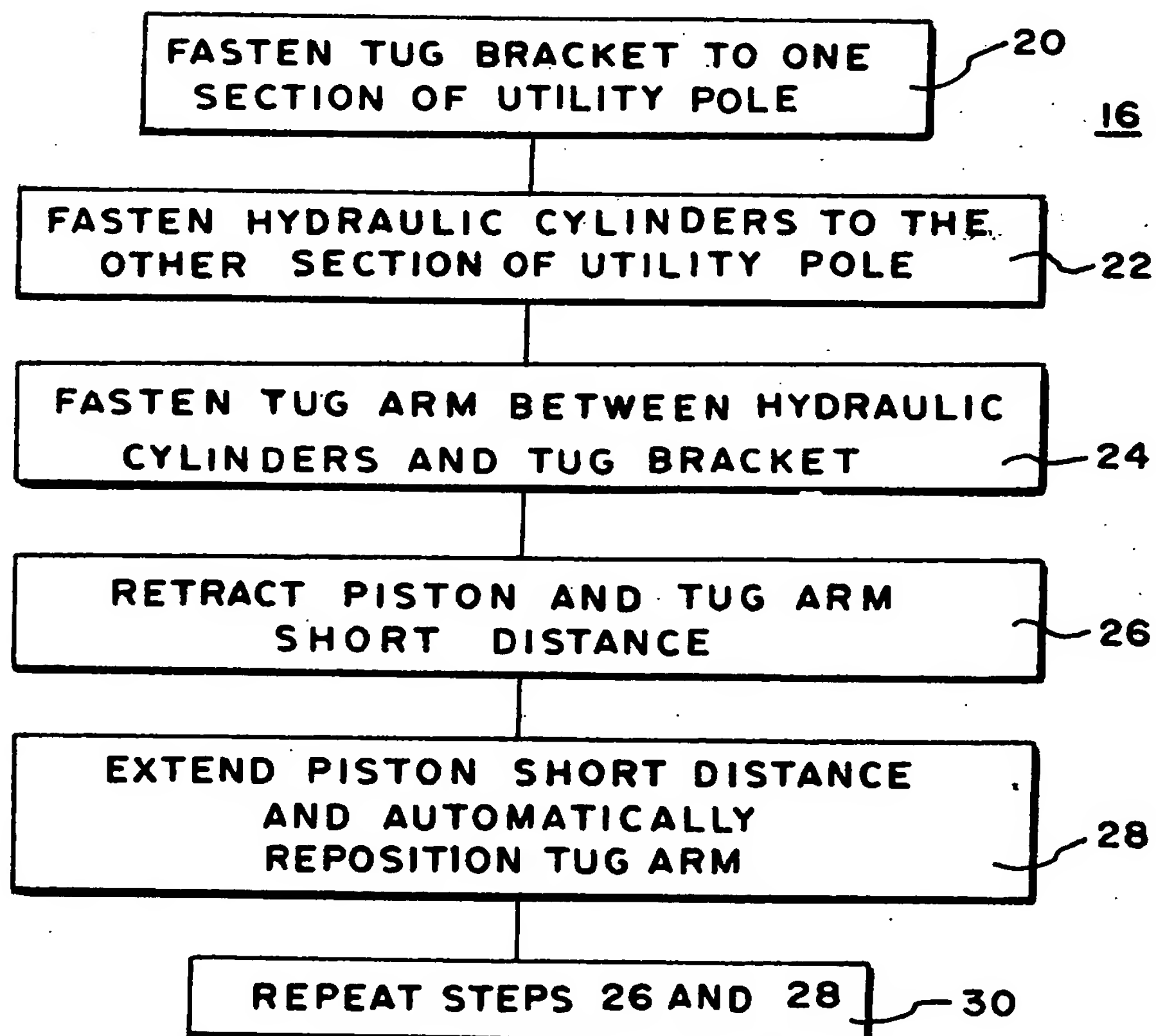


FIG. 2



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FIG. 3

28

EXTEND TUG ARM WITH HYDRAULIC PISTON
TO CAUSE CAM SURFACE OF ONE OF
A PLURALITY OF TEETH TO LIFT TUG ARM
OVER SINGLE TUG TUBE

34

PERMIT TOOTH TO DROP DOWN
WITH TOOTH LOCK SURFACE
SLIDING DOWN FLAT END
OF TUG TUBE

36

FIG. 4

28A

EXTEND PULL ARM WITH HYDRAULIC PISTON
TO CAUSE CAM SURFACE OF A SINGLE TOOTH
TO LIFT TUG ARM AND SINGLE TOOTH
OVER ONE OF A PLURALITY OF TUG TUBES

34A

PERMIT TOOTH TO DROP DOWN
WITH TOOTH LOCK SURFACE SLIDING
DOWN FLAT END OF ONE OF
PLURALITY OF TUG TUBES

36A

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FIG. 5

28B

EXTEND BIFURCATED TUG ARM WITH PARALLEL LADDER LEGS, CONNECTING END MEMBERS AND SPACED APART STEP MEMBERS BETWEEN AND PARALLEL TO THE END MEMBERS UNTIL FORWARD END OF END MEMBERS OR STEPS ENGAGE CAM SURFACE OF TOOTH ON TUG BRACKET.

32B

EXTEND TUG ARM WITH HYDRAULIC PISTON TO CAUSE CAM SURFACE OF TOOTH TO FORCE TUG ARM OUTWARD AGAINST BIAS OF LEAF SPRING

34B

PERMIT TUG ARM AND STEP MEMBERS TO BE PULLED BACK AGAINST LOCKING SURFACE OF THE TOOTH

36B

FIG. 6

FABRICATE TUBULAR SECTIONS

12

10A

BRING SECTIONS TO SITE

14

PULL SECTIONS TOGETHER WITH SHORT REPEATED STROKES BY MANUALLY MANIPULATING THE POSITION OF A FLEXIBLE MEMBER CONNECTING THE TUG BRACKET AND THE TUG ARM.

16A

ERECT UTILITY POLE

18

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FIG. 7

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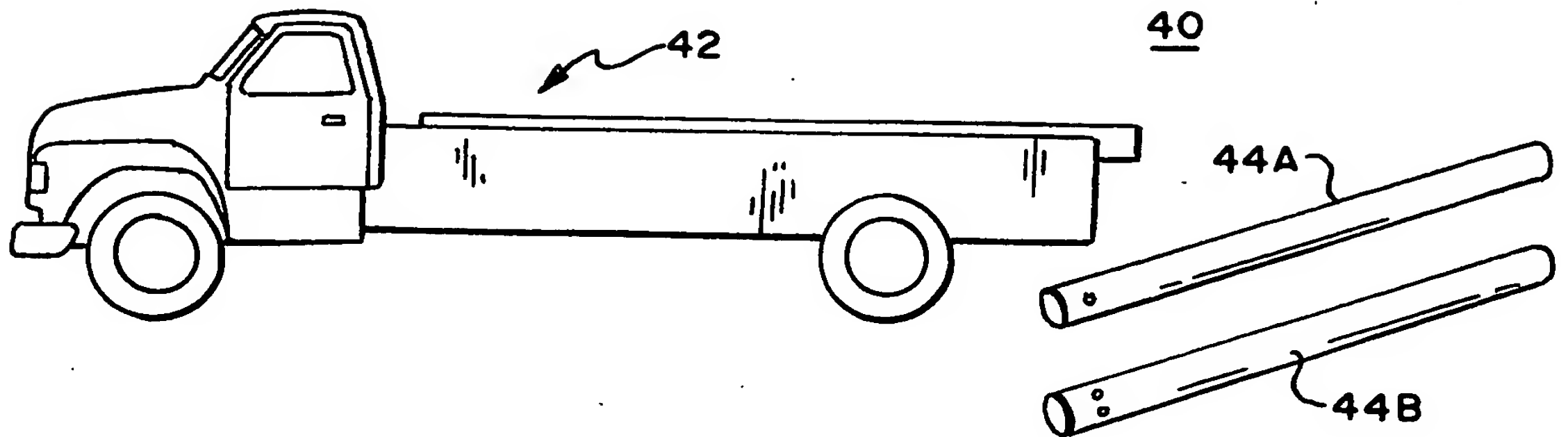
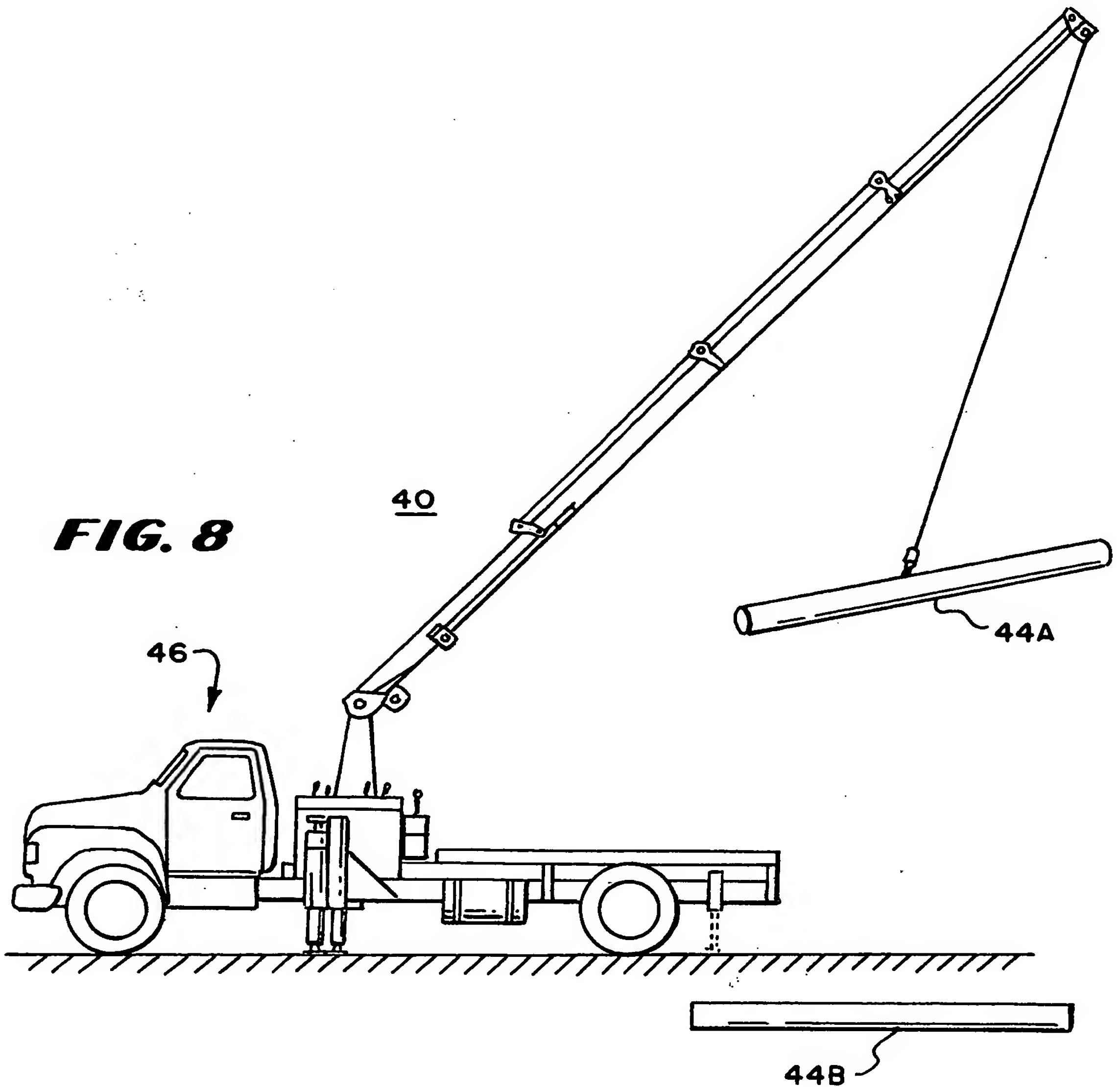


FIG. 8

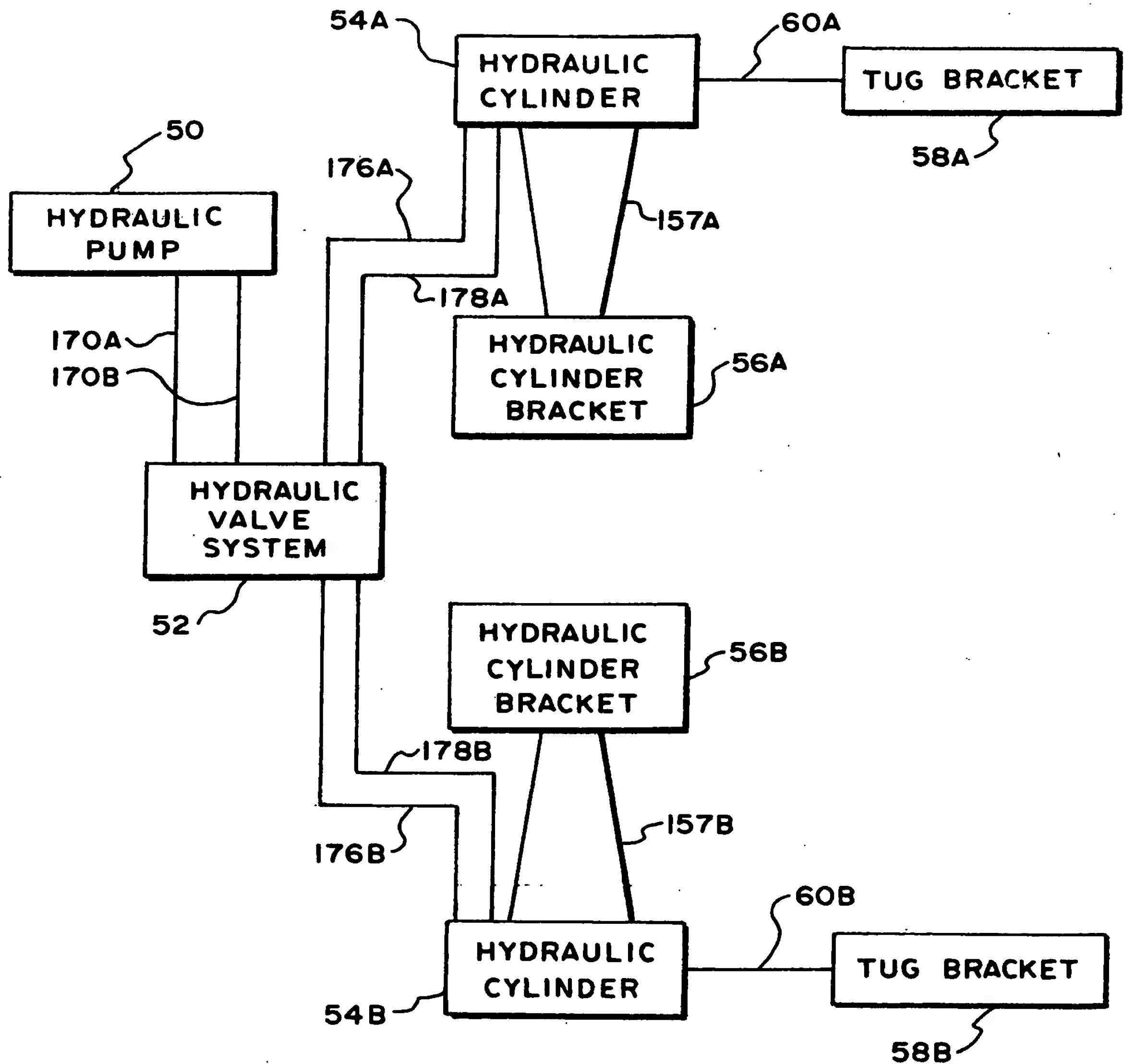


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FIG. 9

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FIG. 10

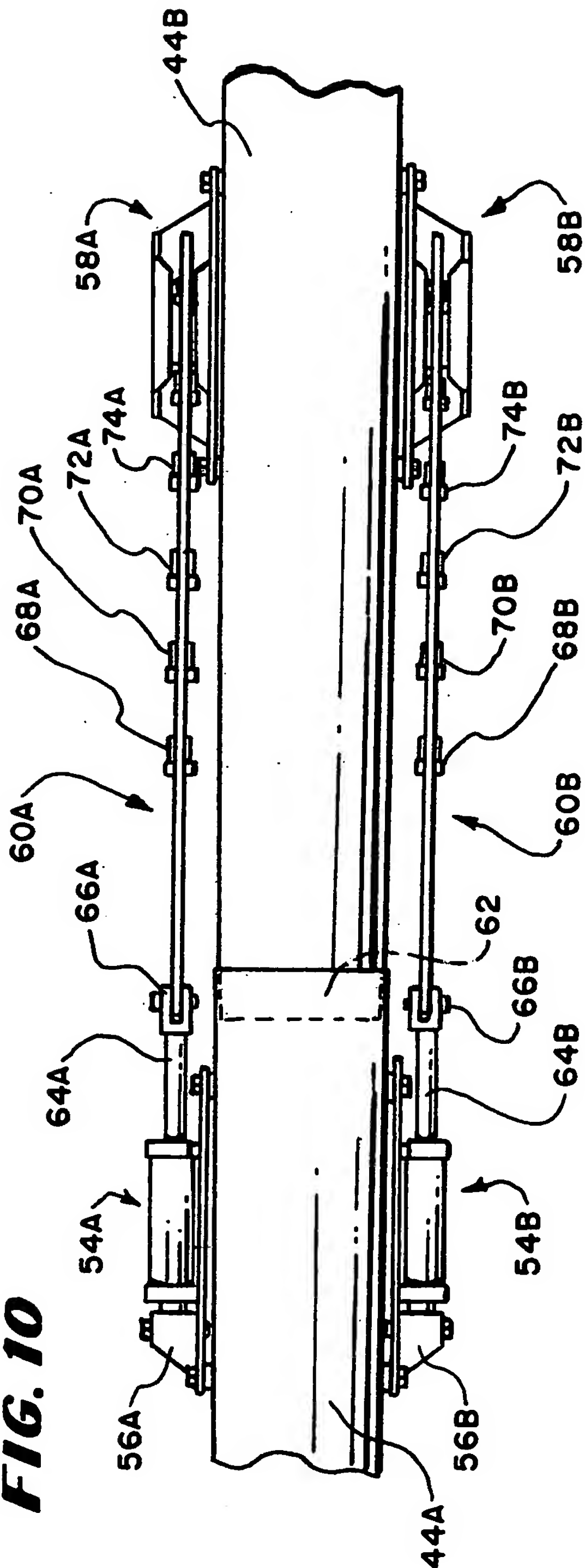
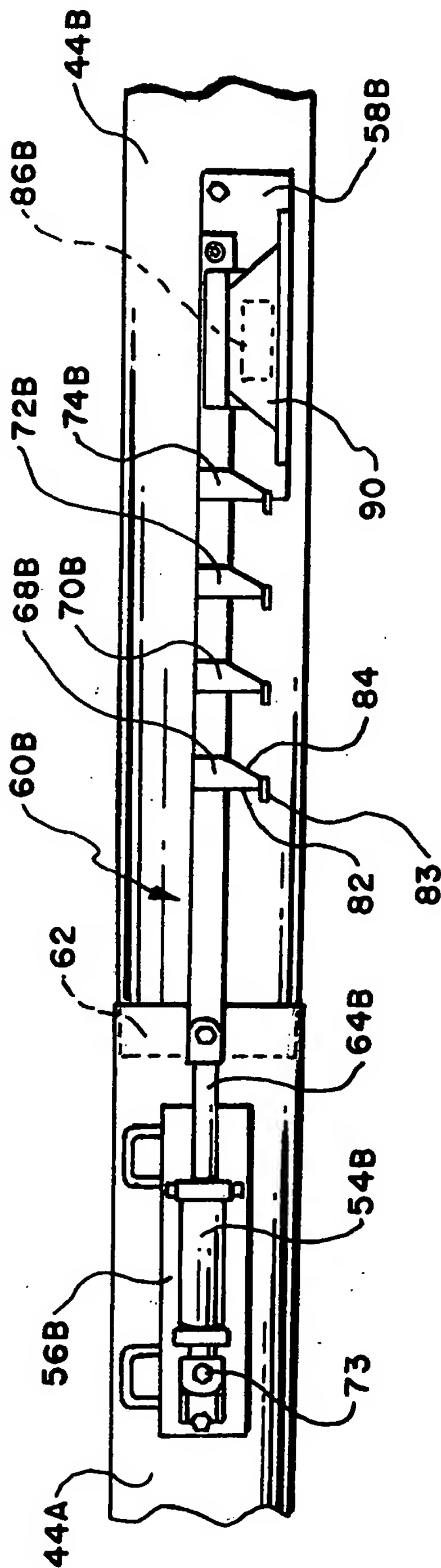


FIG. 11



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FIG. 12

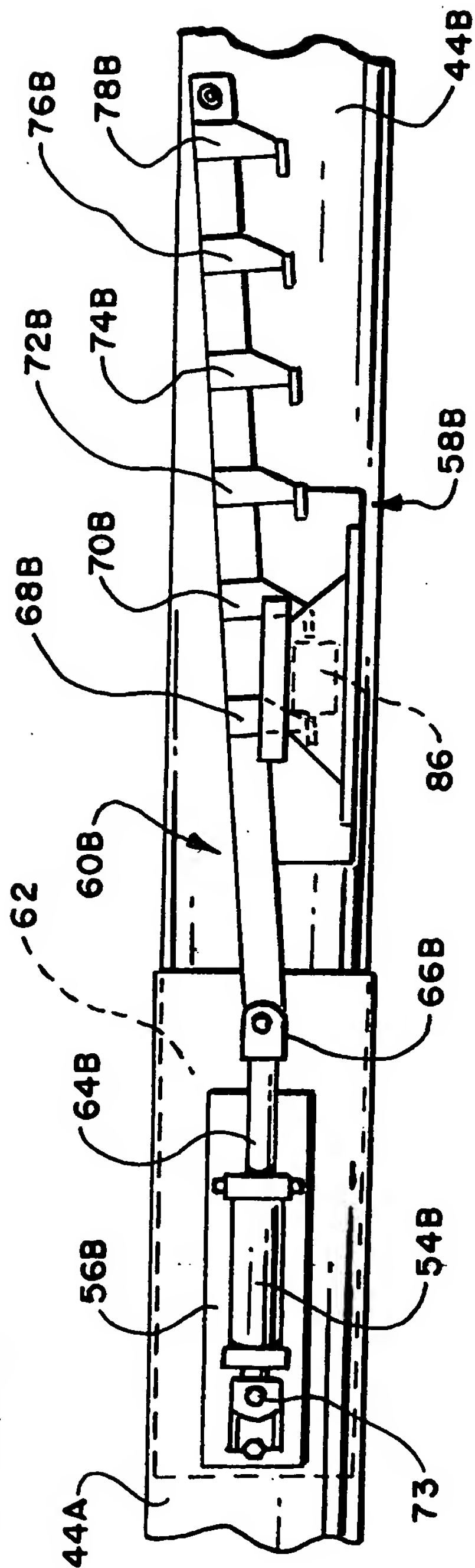
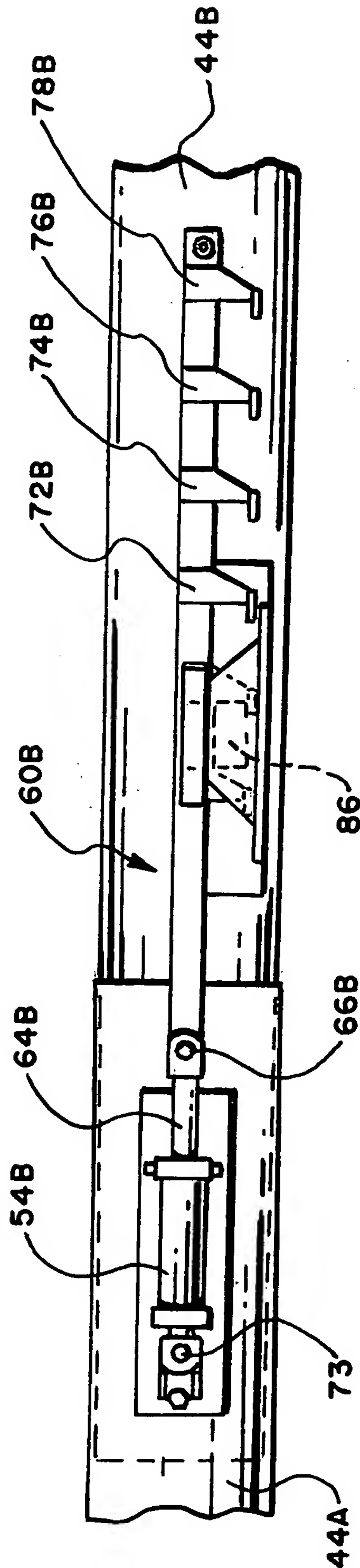


FIG. 13



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FIG. 14

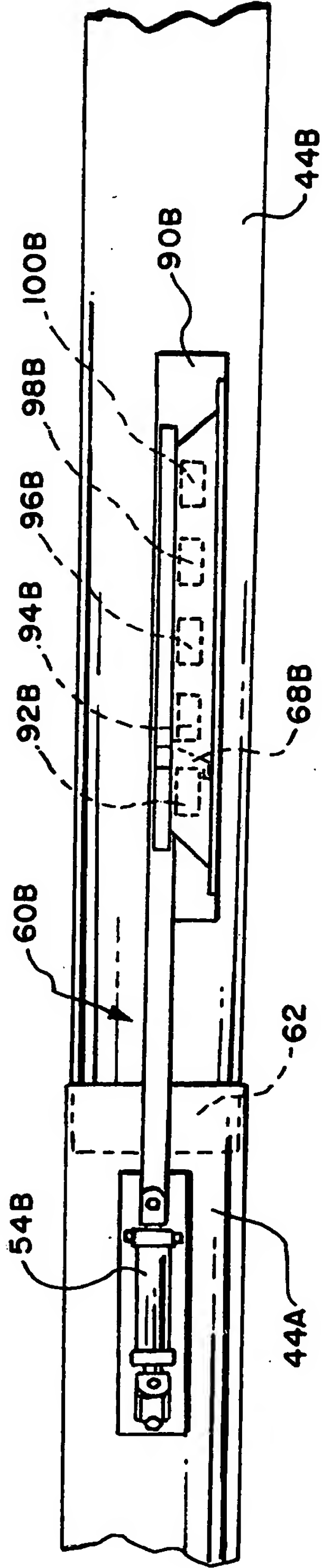
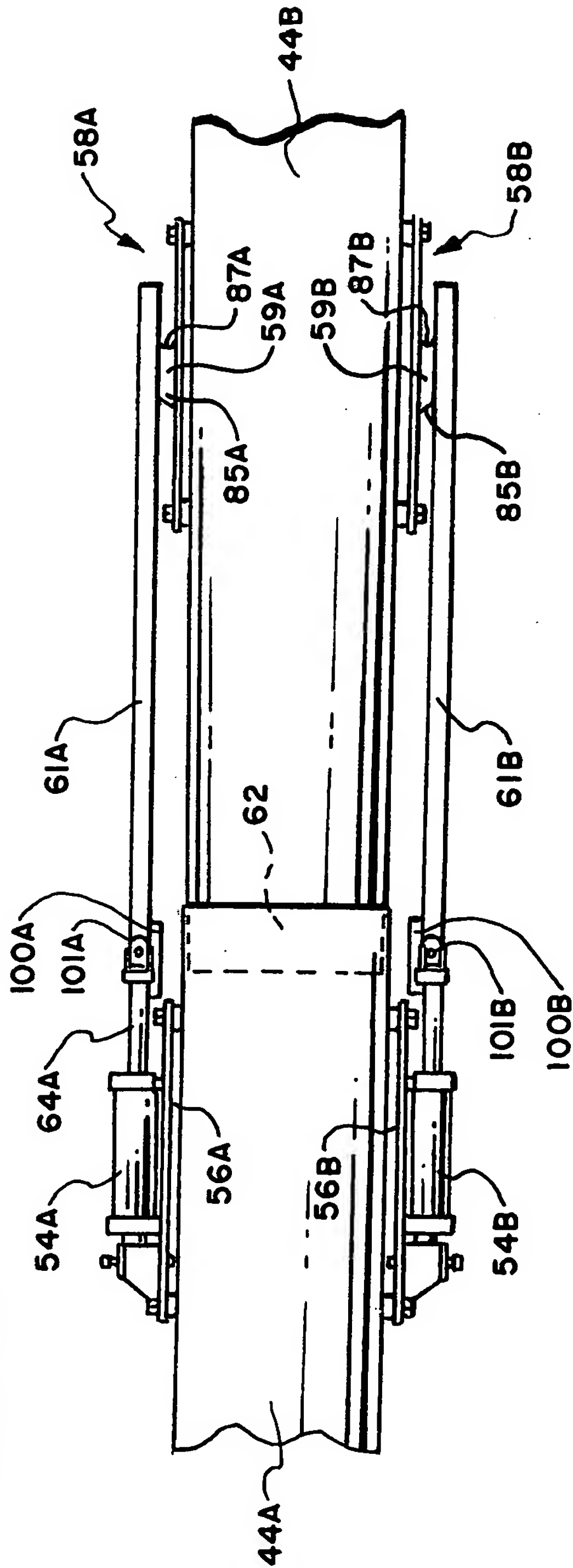


FIG. 15



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FIG. 16

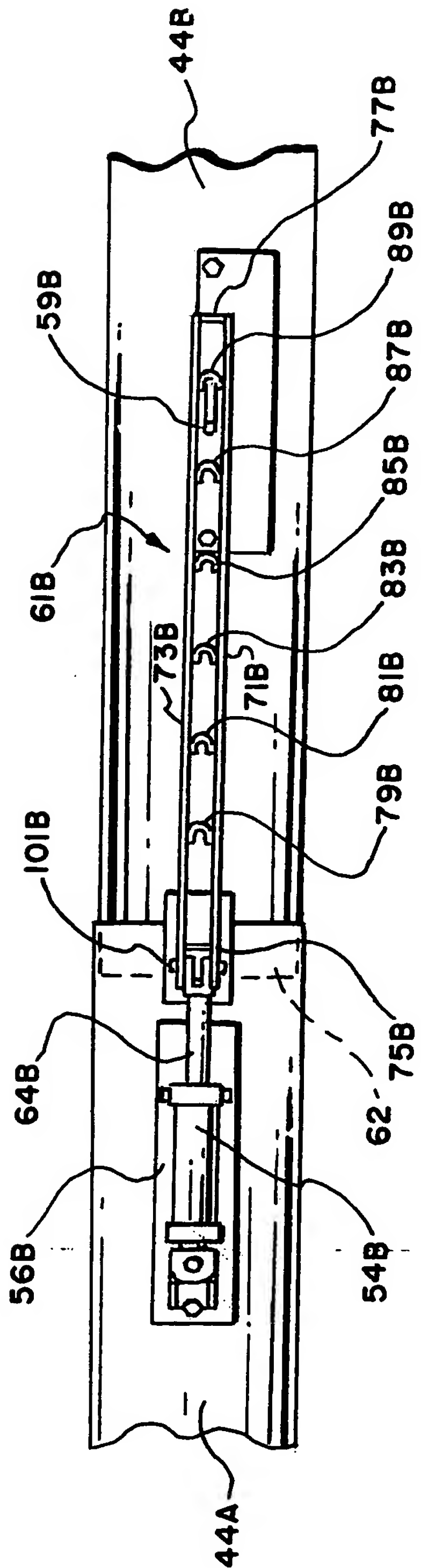
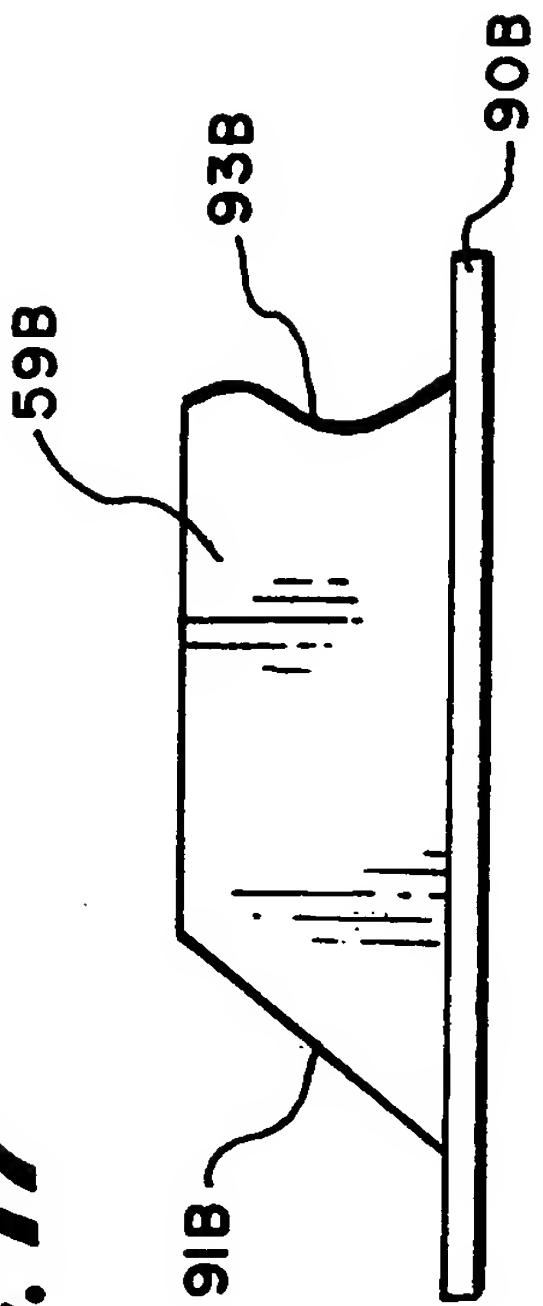


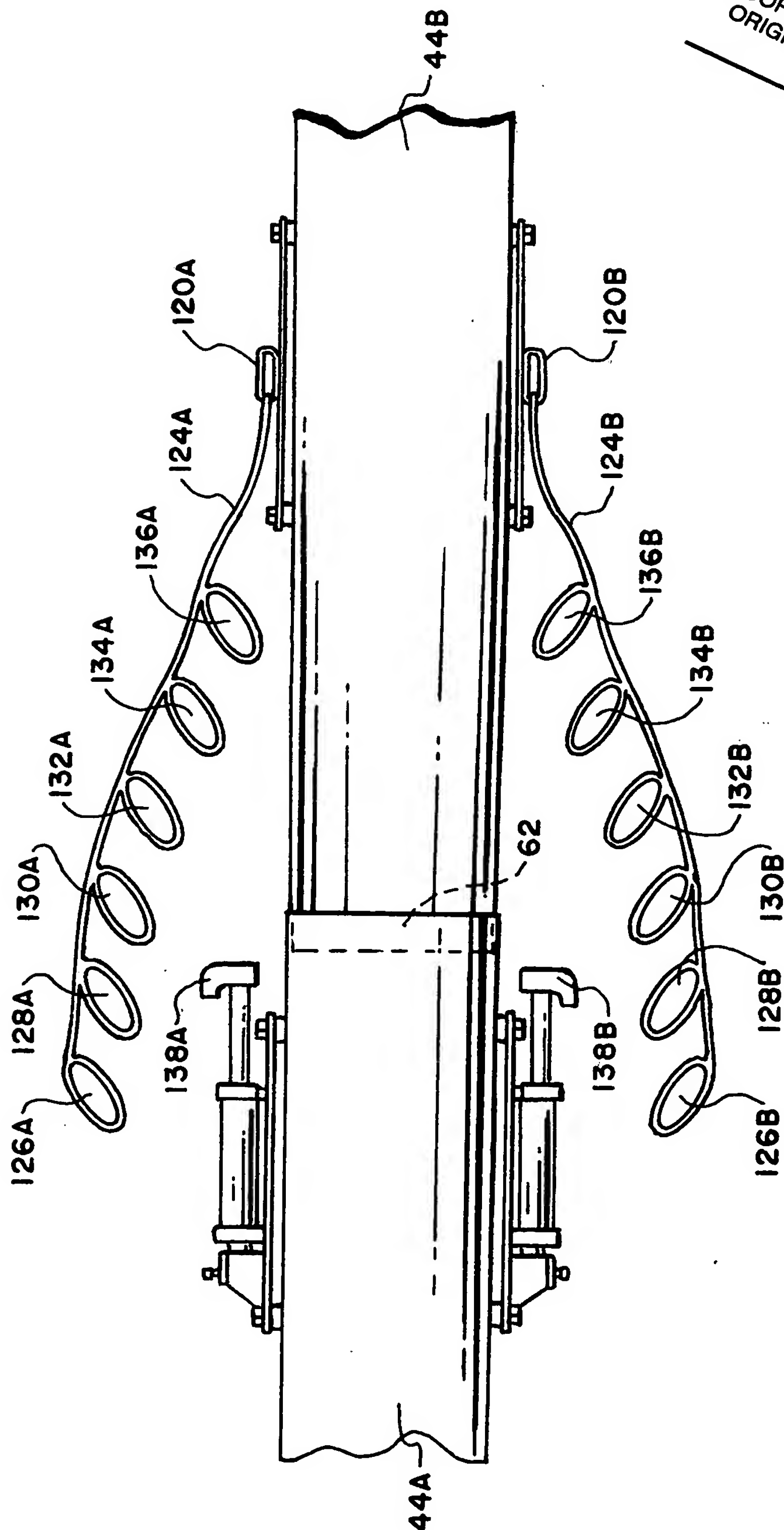
FIG. 17



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FIG. 18



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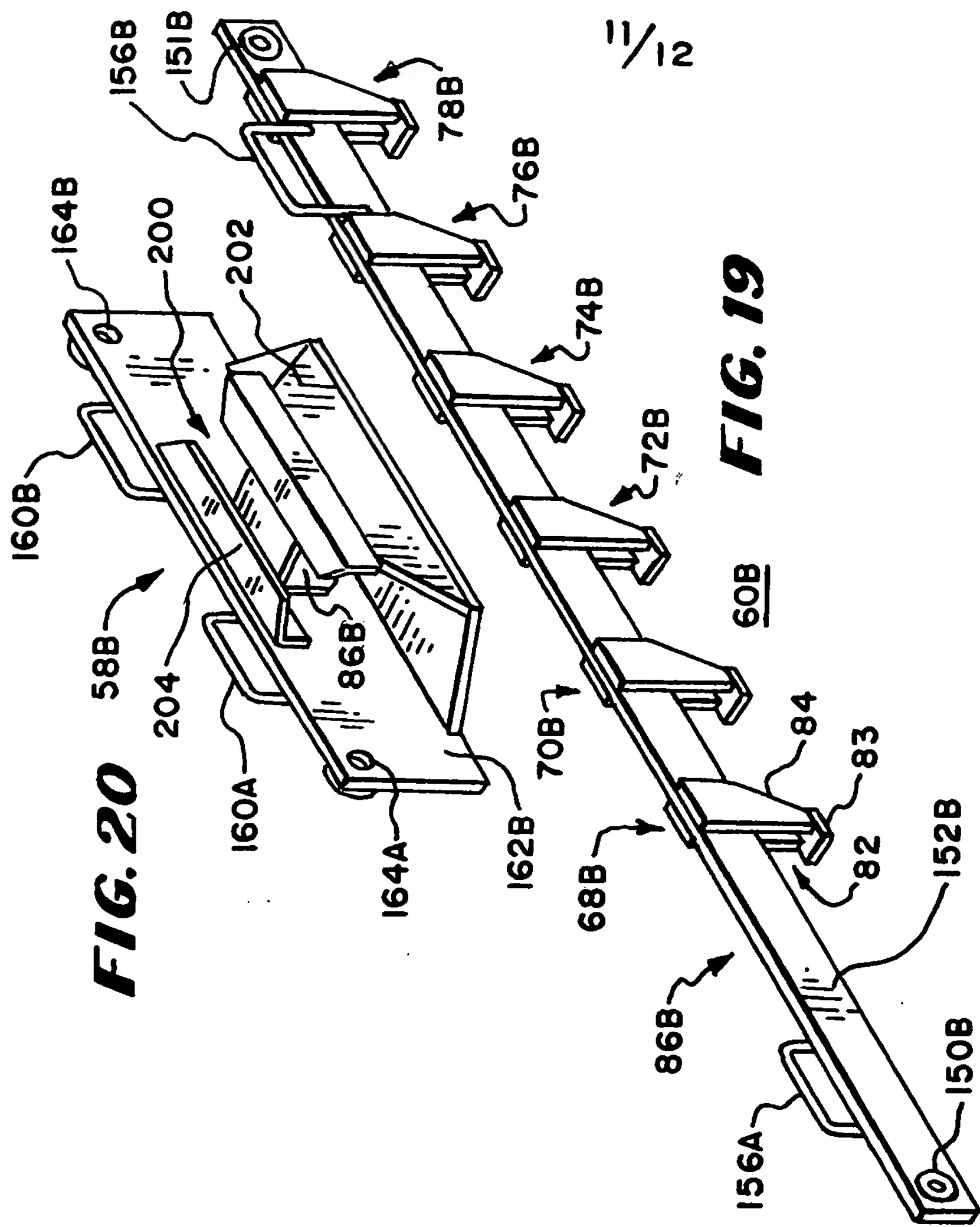


FIG. 19

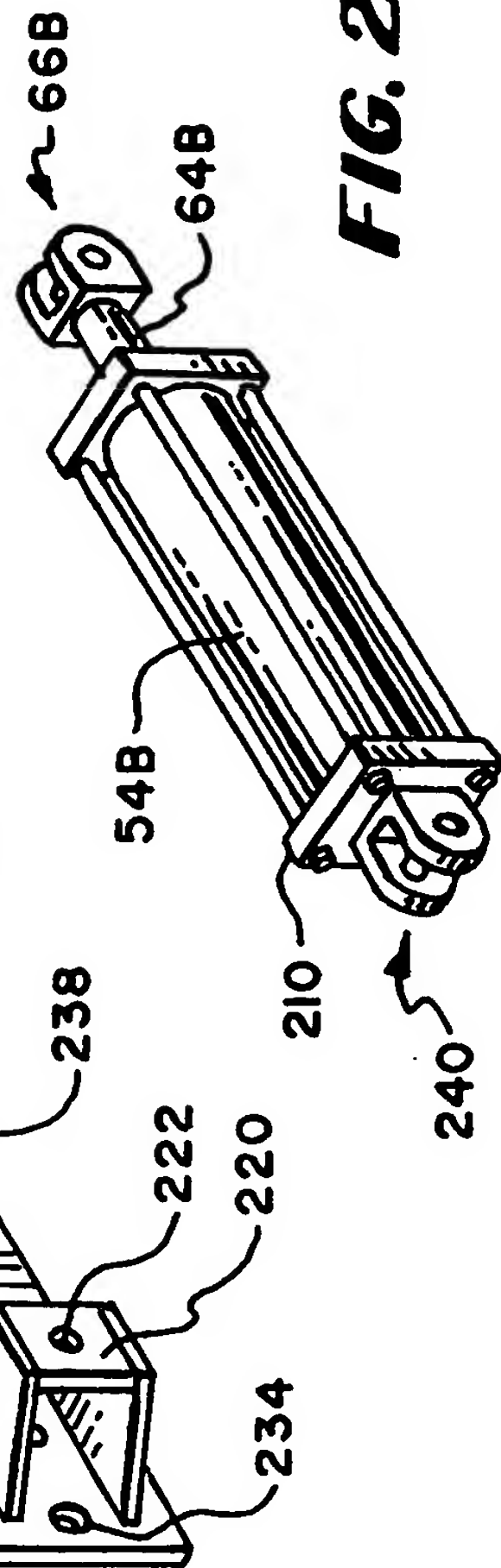


FIG. 21

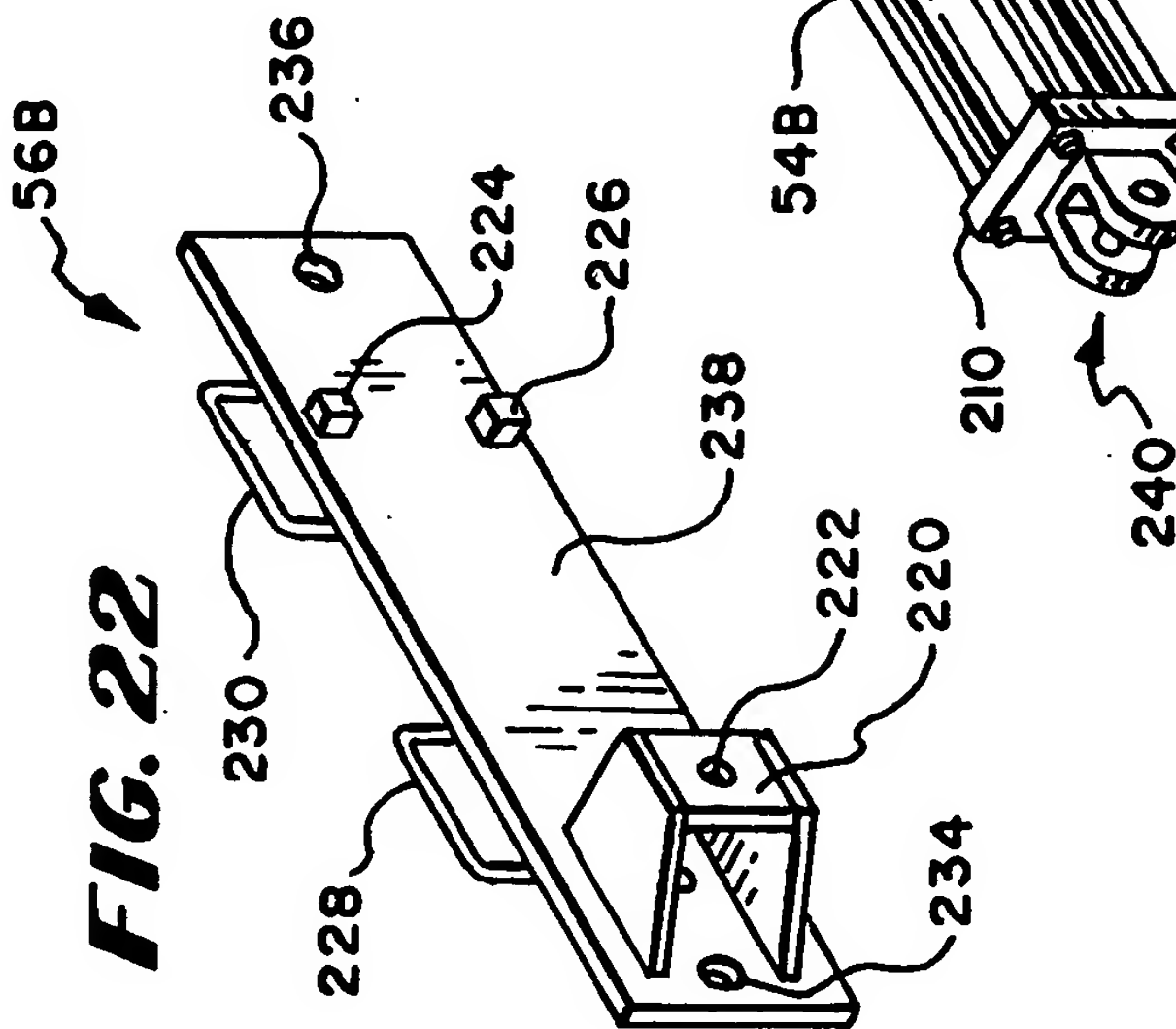


FIG. 22

FIG. 20

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